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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,073	01/31/2001	Yasufumi Ichikawa	33220	7828

116 7590 12/14/2004

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EXAMINER

NGUYEN, TU X

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/762,073

Applicant(s)

ICHIKAWA, YASUFUMI

Examiner

Tu X Nguyen

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10/18/04.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Amendment

1. Applicant's arguments with respect to claims 1, 10 and 14 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-19 rejected under 35 U.S.C. 103(a) as being unpatentable over Sawahashi et al. (US Patent 5,590,409) in view of Bontu et al. (US Patent 6,418,137).

Regarding claims 1 and 10-11, Sawahashi et al. disclose a transmission power control feature for controlling the transmission power of a local station by using the transmission power control bit transmitted from a distant station (base station 200) to the local station (mobile station 100), comprising:

Communication state detector which detects the communication state based on the reception power of a received signal transmitted from the distant station (base station 200, see S1-2, fig.4).

Transmission power control range changer which changes the transmission power control range corresponding to the transmission power control bit based on the detected communication state (see S3-S8, fig.4 and col.8 lines 14-57).

Sawahashi et al. fail to disclose "transmission power control step".

Bontu et al. disclose "transmission power control step" (see col.3 lines 1-19).

Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sawahashi with the above teaching of Bontu et al. in order to provide varying power transmission relatively constant in small step size such as $\pm 0.5\text{DB}$ as suggested by Bobtu et al. (see col.1 lines 55-64).

Regarding claims 2-3, 13 the modified Sawahashi et al. disclose communication state detector has a reception power change detector which detects a change in reception power in a mobile station (see Sawahashi, S3-5, Fig.4).

Regarding claim 4, the modified Sawahashi et al. disclose said communication state detector has a control state detector which detects the control state of the local station (mobile station 100, see Sawahashi, S4, fig.4).

Regarding claims 5-6, 12, the modified Sawahashi et al. disclose said communication state detector has a mobile station transmission power change detector which detects a change in transmission power in the local station (mobile station 100, see Sawahashi, S1, S7-8, fig.4).

Regarding claims 7 and 15, the modified Sawahashi et al. disclose compares a previous reception power with a current reception power (see Sawahashi, col.4 lines 20-27).

Regarding claims 8 and 16, the modified Sawahashi et al. disclose a fading pitch of reception power (see Sawahashi, col.3 lines 7-20).

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Regarding claims 9 and 18, the modified Sawahashi et al. disclose compares the reception power with a predetermined threshold (see Sawahashi, col.4 lines 21-22).

Regarding claim 14, the modified Sawahashi et al. disclose everything as claim 1 above. More specifically, the modified Sawahashi et al. disclosed said transmission power control range changing step changes the transmission power control range depending on the detected change in transmission power in the mobile station and the detected change in the transmission power control bit (see Sawahashi, S4-5, fig.4).

Regarding claim 17, the modified Sawahashi et al. disclose everything as claim 7 and 8 above.

Regarding claim 19, the modified Sawahashi et al. disclose a computer-readable recording medium for storing a program for use by a computer for executing the transmission power control method for the radio communications apparatus (see Sawahashi, col.8 lines 14-22, it is inherent that the mobile station carries out the processing steps by the stored executable programming instructions).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 703-305-3427. The examiner can normally be reached on Monday through Friday from 8:30AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at (703) 308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121
Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

TW

November 22, 2004


NAY MAUNG
SUPERVISORY PATENT EXAMINER